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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/527,561	03/11/2005	Ihor E. Kopka	21204P	7320
210 MERCK AND	7590 05/18/2007 OCO INC	EXAMINER		INER
P O BOX 2000 RAHWAY, NJ 07065-0907		BALASUBRAMANIAN, VENKATARAMAN		
			ART UNIT	PAPER NUMBER
			1624	
	•		MAIL DATE	DELIVERY MODE
			05/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/527,561	KOPKA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Venkataraman Balasubramanian	1624			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAINS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		·				
1)⊠	Responsive to communication(s) filed on 22 February 2007.					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
<ul> <li>4)  Claim(s) 1, 4-9, 11, 13-15, 17, 25 and 26 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1,4-9 and 17 is/are rejected.</li> <li>7)  Claim(s) 11, 13-15, 25 and 26 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>						
Application Papers						
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some color None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s) te of References Cited (PTO-892)	. 4) 🔲 Interview Summary	(PTO.413)			
2) Notice	the of References Cited (FTO-692) the of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

#### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Applicant's submission filed on 2/22/2007 has been entered. Claims 1, 4-9, 11, 13-15, 17, 25 and 26 are now pending.

In view of applicants' response, all 112, 102 and 103 rejections made in the previous office action have been obviated.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

1. Recitation of "or pharmaceutically acceptable salts thereof" in claim 5 renders claim 5 indefinite as it is not clear whether claim 5 is compound claim or a composition claim containing various salts.

Note Markush choices should be in singular. Replacement of "salts' with "salt" is suggested.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 7, 8 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanaka et al., Chemical & Pharmaceutical Bulletin 42(9), 1828-1834, 1994; CA123:9410, 1995(CAPLUS Abstract provided).

See second compound in the abstract.

Claims 1 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Dereu et al., US 5,366,982.

Dereu et al., teaches a genus of pyrimidine compounds of formula I, composition and method of use, which include instant compounds and composition. See column 3, formula 1 and note the definition of various variable groups Z, W, X, Q, R, R', R<sub>2</sub>, R<sub>3</sub>, and R<sub>4</sub>. Note with the given definition of these groups, the compounds taught by Dereu et al., include instant compounds. See column 3-14 for details of the invention. See column 14-40 for various compounds made, which include instant compounds. Especially see column 28, line 9 and line 17 for two pyrimidinyloxy compounds.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 4-9 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dereu et al., US 5,366,982.

Teachings of Dereu et al., as discussed in the above 102 rejection is incorporated herein. As noted above, Dereu et al., teaches a genus of pyrimidine compounds of formula I, composition and method of use, which include instant compounds and composition. See column 3, formula 1 and note the definition of various variable groups Z, W, X, Q, R, R', R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub>. Note with the given definition of these

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groups, the compounds taught by Dereu et al., include instant compounds. See column 3-14 for details of the invention. See column 14-40 for various compounds made, which include instant compounds. Especially see column 28, line 9 and line 17 for two pyrimidinyloxy compounds.

Dereu et al., differs from the instant claims in not exemplifying all compounds generically embraced in formula I with various substituents generically embraced for formula I.

However, Dereu et al. teaches equivalency of those compounds taught in column 14-40 with those generically recited in column 3-14.

Thus, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to make compounds using the teachings of Dereu et al., including compounds with various substituents and expect resulting compounds to possess the uses taught by the art in view of the equivalency teaching outline above.

# Allowable Subject Matter

Claims 11, 13-15, 25 and 26 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication from the examiner should be addressed to Venkataraman Balasubramanian (Bala) whose telephone number is (571) 272-0662. The examiner can normally be reached on Monday through Thursday from 8.00 AM to 6.00 PM. The Supervisory Patent Examiner (SPE) of the art unit 1624 is

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James O. Wilson, whose telephone number is 571-272-0661. The fax phone number for

the organization where this application or proceeding is assigned (571) 273-8300. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAG. Status

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more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-2 17-9197 (toll-free).

Ventsetarmer Balasuhamanar

5/14/2007